BILL NO. S-96-12 -20

SPECIAL ORDINANCE NO. S-13-97

AN ORDINANCE approving the awarding of **I.T.B. #7342-PURCHASE OF EXCAVATOR** by the City of Fort Wayne, Indiana, by and through its Department of Purchasing and SOUTHEASTERN EQUIPMENT COMPANY for the Water Pollution Control Maintenance Department

NOW, THEREFORE, BE IT ORDAINED BY THE COMMON COUNCIL OF THE CITY OF FORT WAYNE, INDIANA;

SECTION 1. That **I.T.B. #7342-PURCHASE OF EXCAVATOR** between the City of Fort Wayne, by and through its Department of Purchasing and SOUTHEASTERN EQUIPMENT COMPANY (vendor was not the low bidder) for the City of Fort Wayne Water Pollution Control Maintenance Department, respectfully for:

> the purchase of a hydraulic excavator for the Water Pollution Control Maintenance Department;

involving a total cost of One Hundred Nine Thousand Five Hundred and no/100 Dollars ($109,500.00), all as more particularly set forth in said I.T.B. #7342, which is on file in the Office of the Department of Purchasing, and is by reference incorporated herein, made a part hereof, and is hereby in all things ratified, confirmed and approved.

SECTION 2. That this Ordinance shall be in full force and effect from and after its passage and any and all necessary approval by the Mayor.

Council Member

APPROVED AS TO FORM
AND LEGALITY

J. Timothy McCaulay, City Attorney

Item	B & W	Rudd Equip	Rudd Equip Alt	Industrial Constr	Southeastern	Southeastern	Macdonald Mach	Spec Requirements
Make								
Model	Daewoo	Hitachi- Used	Hitachi - New	John Deere	Kobelco - New	Kobelco - Used	Case Used	
Year	Solar 220LC III	EX200LC-3	EX200LC-3	200 LC	SK200LC IV	SK200LC IV	9030B	1995 or Later
Bid Price	$119,185.00	$97,000.00	$125,700.00	$121,182.00	$114,000.00	$109,500.00	$124,500.00	
Delivery	30 days	7 days	7 days	60 days	30 days	10-20 days	30 days	
Validity	90 days		30 days	60 days	60 days	60 days	30 days	
Horsepower	135	132		140		138	128	128
Engine displacement	492"	***353"***		414"		359"	359"	***359"***
# cylinders	6	6		6		6	6	6
Fuel Capacity	83.9 gal	81.9 gal		80 gal			82gal	
Hydraulic Pump	2 x 61.6 gpm	2 x 48.9 gpm		2 x 52.6 gpm		2 x 55 gpm	2 x 51.3 gpm	
Hydraulic capacity	33.3 gal	34.3 gal		66 gal		38 gal	32gal	
Track pad width	31.5"	31"		32"		31.5"	32"	31.5
Track length	14' 8"	14' 8"		14' 8"		14' 8"	14' 8"	
Transport width	9' 9"	10' 6"		10' 6"		10' 6"	10'6"	10 ft 6"
Transport height	9' 10"	9' 6"		9' 9"		9' 8"	9'7"	
Transport Length	31' 7"	31' 2"		31' 2"		30' 7"	31'	31 ft 4"
Ground Clearance	18"	18"		18"		18.3"	18"	18"
Gross weight	44,300 lbs	***43,400 lbs***		44,750 lbs		45,900 lbs	44,540 lbs	***44,540 lbs***
Ground pressure	4.7			4.58 psi		***4.69 psi***	4.5 psi	***4.5 psi***
Tip Load	13,673 lbs	***13,100 lbs***		14,799 lbs		14,300 lbs	13,550 lbs	***13550 lbs***
Dipper breakout	21,600 lbs	20,100 lbs		21,570 lbs		22,710 lbs	20,290 lbs	20,290 lbs
Bucket Breakout	28,200 lbs	25,400 lbs		27,580 lbs		29,000 lbs	25,580 lbs	25,580 lbs
Dig radius at groung line	32' 3"	32'		32'		31' 9"	32'	
Maximum dig depth	21' 9"	21' 11"		21' 11"		21' 11"	21' 11"	21' 11"
Dig depth - 8' level bottom	21' 2"	21' 4"		21' 4"		21' 2"	21' 1"	21' 1"
Dump height	21' 9"	22' 3"		22' 3"		21' 7"	21' 11"	21' 11"
Overal reach height	30' 11"	31' 6"		31' 6"		31' 6"	31' 1"	
Bucket rotation							183 degrees	
Verticle straight wall dig de	19' 9"	19' 10"		19' 10"		19' 8"	19' 7"	
Tail swing radius		9'		9'		8' 10"	9' 2"	
Swing speed	12.3rpm	***11.0rpm***		13.9		13.0rpm	11.9rpm	***11.9rpm***

itb 7342
excavator
stm

11/21/96

item	B & W	Rudd Equip	Rudd Equip alternate	Industrial Constr	Southeastern	Southeastern	MacDonald Mach
make	Daewoo	Hitachi-used	Hitachi-new	John Deere	Kobelco-new	Kobelco-used	Case-used
model	Solar 220LC III	EX200LC-3	EX200LC-3	200 LC	SK200LC IV	SK200LC IV	9030B
year	1997	1995	new	1997	1996	1996	1996
bid price	$119,185.00	$97,000.00	$125,700.00	$121,182.00	$114,000.00	$109,500.00	$124,500.00
delivery	30 days	7 days	7 days	60 days	30 days	10-20 days	30 days
validity	90 days	see quote	30 days	60 days	60 days	30 days	90 days
optional leveler	$14,130.00	n/q	n/q	n/q	n/q	n/q	$29,600.00

dd:

Note: 12/5/96: Did a side by side comparison of the Hitachi EX200lc-3 and the Kobelco SK 200lc Mark IV.

On a side by side travel speed the Kobelco was faster.

For a lift capacity test we used a trench box that was double walled 6ft high x 16ft long with 24" spreaders.

For lifting straight out from the front of the machines with the final drives to the rear both machines were about equal, being able to extend the boom to the maximum reach raising the rear of the tracks about six inches.

For the 180 degree lift to the side of the machine the Kobelco was able to lift the box 2.5 feet further. 19 feet verses 21.5 feet

For the incline swing test we put one track of the machines on a pile of stone about30" higher than the other. We then extended the boom out with the box until the machine tipped. At that point we swung the box uphill to see how much swing tork the machines had.

Both machines were about equal on the swing tork but the Hatachi started to tipp about five feet sooner than the Kobelco.

This tipping is a big concerne to us because of the fact that we plan on cleaning a lot of ditches where the machine will be on an incline where tipping is a problem.

Another test was on side pressure where you put the bucket against a pile of dirt and by using swing pressure you push the dirt into the hole. The Kobelco seemed to have slightly more power for this function.

The final test we did was to have the machines in transport mode,(moving the machines forward) and putting the hydraulic system in bypass by moving the controlls as fast as you could up, down , roll the bucket and dipper.

When the Kobelco was in the heavy duty mode the track speed would slow down noticeably, but when the machine was set in the d mode movement of the controls did not affect the track speed, although in this setting track speed is slower.

When doing this test on the Hatachi track speed slowed down, I also noticed the bucket was hesitant to move smoothly while tracking the machine.

Our overall choice is to go with the Kobelco, based primarily on the tip factor, but this machine also has better visibility from the cab with glass overhead to see overhead power lines, and it has warning lights on the rear corners that signal when the machine is rotating or moving

REF. NO.:	7342
DEPT:	WPC MAINTENANCE DEPARTMENT
DATE:	12/17/96
ITEM/SERVICE:	EXCAVATOR
ADVERTISED BID:	YES
DATES ADVERTISED:	11/4/96 & 11/11/96
DATE OPENED:	11/21/96
SINGLE SOURCE:	NO
NO. OF VENDORS NOTIFIED:	19
NO. OF VENDORS RECEIVING BID:	7
NO. OF VENDORS RETURNING BID:	6
NO. OF VENDORS DISQUALIFIED:	0
DATE SENT TO DEPT FOR RECOMM:	11/21/96
DATE RECOMM RECEIVED BACK:	12/9/96
DATE SENT TO LAW DEPT:	12/12/96
INTRODUCTION DATE:	12/17/96
DISCUSSION DATE:	01/07/97
PASSAGE DATE:	01/14/97

The City of Fort Wayne

City Utilities

December 9, 1996

Fort Wayne City Council
One Main Street
Fort Wayne, IN 46802

Dear City Council Members:

The management of Water Pollution Control Maintenance and Storm Water Maintenance requests your approval of Bid #7342. The vendor selected was not low bidder.

Our choice was based on a side-by-side comparison of the two lowest machine bids. We put the machines through a series of situations that would be encountered during normal working conditions.

1) Ground travel speed of the Kobelco is faster than the Hitachi
2) Response of the hydraulic system and controls were smoother in the Kobelco (Significant fact when digging near buried utilities)
3) Side stability of the Kobelco was noticeably greater
   a) one test we conducted was to place the machines on an incline and lift a heavy object 180 degrees to the side of the tracks. The Hitachi machine started to tip about five feet sooner than the Kobelco. This was another point that is very important to the safe operation of the machine during ditch cleaning when digging off the side, on an incline, is common

I would like to state that both vendors have been very helpful to us in reaching this decision. For the $12,500.00 more that we would be spending, we would be receiving a machine that better meets the needs of our department. It has better overhead visibility, rear warning lights on the upper-structure, better side stability, heavier components in the hydraulic system (larger cylinders), 1996 model with 500 hours versus 1,000 hours on the 1995 model.

If I can provide any further information to you please call me at 427-1379.

Sincerely,

Gary D. Merriman

Gary D. Merriman,
Assistant Superintendent

Read the first time in full and on motion by Hall, and duly adopted, read the second time by title and referred to the Committee on City Utilities (and the City Plan Commission for recommendation) and Public Hearing to be held after due legal notice, at the Common Council Council Conference Room 128, City-County Building, Fort Wayne,, Indiana, on _____, the _____ day of _____, 19____, at _____ o'clock _____M.,E.S.T.

DATED: 12-17-96

Sandra E. Kennedy
SANDRA E. KENNEDY, CITY CLERK

Read the third time in full and on motion by Bender, and duly adopted, placed on its passage. PASSED ~~LOST~~ by the following vote:

	AYES	NAYS	ABSTAINED	ABSENT
TOTAL VOTES	8			1
BENDER	✓			
CRAWFORD	✓			
EDMONDS	✓			
HALL	✓			
HAYHURST	✓			
HENRY	✓			
LUNSEY	✓			
RAVINE	✓			
SCHMIDT				✓

DATED: 1-14-97

Sandra E. Kennedy
SANDRA E. KENNEDY, CITY CLERK

Passed and adopted by the Common Council of the City of Fort Wayne, Indiana, as (ANNEXATION) ~~(APPROPRIATION)~~ ~~(GENERAL)~~ (SPECIAL) ~~(ZONING)~~ ORDINANCE ~~RESOLUTION~~ NO. S-13-97 on the 14th day of January, 1997

ATTEST: (SEAL)

Sandra E. Kennedy
SANDRA E. KENNEDY, CITY CLERK

Thomas C. Henry
PRESIDING OFFICER

Presented by me to the Mayor of the City of Fort Wayne, Indiana, on the 15th day of January, 1997, at the hour of 11:30 o'clock A.M., E.S.T.

Sandra E. Kennedy
SANDRA E. KENNEDY, CITY CLERK

Approved and signed by me this 16th day of January, 1997, at the hour of 9:30 o'clock A M., E.S.T.

Paul Helmke
PAUL HELMKE, MAYOR

DIGEST SHEET

TITLE OF ORDINANCE: Special

DEPARTMENT REQUESTING ORDINANCE: Purchasing

SYNOPSIS OF ORDINANCE: An ordinance approving the award of I.T.B. #7342 for the purchase of a hydraulic excavator for the WPC Maintenance Department.

IF NOT LOWEST, WHO WAS AND WHY WERE THEY NOT AWARDED:

SEE ATTACHED LETTER TO CITY COUNCIL

EFFECT OF PASSAGE:

Excavator is needed for ditch cleaning jobs and emergency sewer repairs.

IF REPLACEMENT, WHAT NECESSITATES:

EFFECT OF NON-PASSAGE:

Planned ditch cleaning projects would have to be postponed. Emergency sewer repairs would be delayed and prove to be costly to the Utility if bid out.

MONIES INVOLVED: Southeastern Equipment $109,500.00

PRICE AGREEMENT: PURCHASE ORDER: Yes

SOURCE OF FUNDING: WPC Maintenance 515-533-T101-4442

PRIOR APPROVAL: DATE:
(IF APPLICABLE)

BILL NO. S-96-12-20

REPORT OF THE COMMITTEE ON CITY UTILITIES

MARTIN A. BENDER - CLETUS R. EDMONDS - CO-CHAIR
ALL COUNCIL MEMBERS

WE, YOUR COMMITTEE ON CITY UTILITIES TO WHOM WAS REFERRED AN (ORDINANCE) (REXXXXXXXXX) approving the awarding of I.T.B. #7342-PURCHASE OF EXCAVATOR by the City of Fort Wayne, Indiana, by and through its Department of Purchasing and SOUTHEASTERN EQUIPMENT COMPANY FOR THE Water Pollution Control Maintenance Department

HAVE HAD SAID (ORDINANCE) (REXXXXXXXXX) UNDER CONSIDERATION AND BEG LEAVE TO REPORT BACK TO THE COMMON COUNCIL THAT SAID (ORDINANCE) (REXXXXXXXXX)

DO PASS	DO NOT PASS	ABSTAIN	NO REC
Martin A. Bender			
[signature]			
[signature]			
John N. [signature]			
Deedrie Hall			
Thomas [signature]			
Cletus R. Edmonds			

DATED: 1-14-97

Sandra E. Kennedy
City Clerk